

## Augusta Fiberglass Coatings Inc. - Bow

	usage		§63.5805 Table 3	
	lb/yr*	tpy	CR/HS lb/ton	non CR/HS lb/ton
manual resin	28,750	14.38	123	87
Non-atomized resin	28,750	14.38	113	88
filament resin	57,500	28.75	171	188

Calculations allowed as per §63.5810(b)

Weighted average emission limit (EL) for the facility if the process is CR/HS

$$EL = \frac{(123 \text{ lb/ton} * 14.38 \text{ tons}) + (113 \text{ lb/ton} * 14.38 \text{ tons}) + (171 \text{ lb/ton} * 28.75 \text{ tons})}{(14.38 \text{ tons} + 14.38 \text{ tons} + 28.75 \text{ tons})}$$

$$EL = 145 \text{ lb/ton}$$

\* - usage rates from permit application 08-0473 based on producing one RFP stack liner

Weighted average actual emission factor for the facility

	HAP content		lb HAP/ ton resin
manual resin	41.5%	$[(0.286 \times \%HAP) - 0.0529] \times 2000 =$	132
Non-atomized resin	41.5%	$[(0.157 \times \%HAP) - 0.0165] \times 2000 =$	97
filament resin	41.5%	$[(0.2746 \times \%HAP) - 0.0298] \times 2000 =$	168

$$EF = \frac{(132 \text{ lb/ton} * 14.38 \text{ ton}) + (97 \text{ lb/ton} * 14.38 \text{ ton}) + (168 \text{ lb/ton} * 28.75 \text{ tons})}{(14.38 \text{ tons} + 14.38 \text{ tons} + 28.75 \text{ tons})}$$

$$EF = 141 \text{ lb/ton}$$

Emission limits are from Table 3 of 40 CFR 63 WWW and are for open molding - corrosion-resistant and/or high strength (CR/HS)

Calculations from EPA guidance document for emission calculations for the Reinforced Plastic Composites Rule

### POTENTIAL HAP EMISSIONS

	usage		lb HAP/ ton resin	tpy HAP
	lb/hr <sup>\$</sup>	tpy		
manual resin <sup>@</sup>		405	132	27
Non-atomized resin	150	405	97	20
filament resin	215	581	168	49
<b>TOTAL TPY</b>				<b>95</b>

<sup>@</sup> - manual resin usage is based on the ratio of manual resin application to non-atomized resin application from the permit application 08-0473

<sup>\$</sup> - lb/hr rates based on maximum production information received via email 12/18/08

tpy usage rate based on 18 hours per day 6 days per week 50 weeks per year of operation [5400 hr/yr]